DOCUMENT RESUME

ED 089 603 HE 005 343

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TITLE Graduate Enrollment Data, October, 1973 and Graduate Study in Member Colleges, 1974-1975.
INSTITUTION American Association of Colleges of Pharmacy, Silver Spring, Md.
PUB DATE [74]
NOTE 33p.

EDRS PRICE MF-$0.75 HC-$1.85 PLUS POSTAGE
DESCRIPTORS Annual Reports; Colleges; *Enrollment; *Graduate Study; Health Occupations; Health Personnel; *Higher Education; Medical Education; *Pharmacists; *Professional Education; Statistical Data

ABSTRACT

This is the twentieth annual report on graduate study in member colleges of the American Association of Colleges of Pharmacy. It includes enrollments by college, degree, discipline and sex for 1973, and supplemental information on American minorities. Graduate programs available in 1974-75 appear and a geographic breakdown of both U. S. and foreign graduate students is offered. The report also contains information on undergraduate major, admissions requirements, and the availability and nature of student financial aids. (Author)

ED 089603

GRADUATE ENROLLMENT DATA, OCTOBER, 1973

AND

GRADUATE STUDY IN MEMBER COLLEGES, 1974 - 1975

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HE005343

GRADUATE ENROLLMENT DATA, OCTOBER 1973 AND GRADUATE STUDY IN MEMBER COLLEGES, 1974-1975

This is the twentieth annual report on graduate study in member colleges of the American Association of Colleges of Pharmacy. It includes enrollments by college, degree, discipline and sex for 1973 (Tables I, II) and supplemental information on American minorities (Tables IA and IIA). Graduate programs available in 1974-75 appear in Table III. As is customary in alternate years, a geographic breakdown of both U.S. and foreign graduate students is offered (Tables IV,V,VI). The report also contains information on undergraduate major, admissions requirements, and the availability and nature of student financial aids.

Not included in this report are the 258 full-time and 60 part-time students holding a B.S. in pharmacy and enrolled in Pharm.D. programs. Data on these students are found in the undergraduate enrollment report. As this category of students increases, along with the growth of a number of other degree and non-degree post graduate clinical programs, it appears that yet another type enrollment report will be required in the near future.

Graduate enrollment in member colleges is reported at 2,287 and this represents a seven percent increase over the 1972-1973 figures. However, there is reason to question the comparability of the data sets, because of several apparent omissions from the previous year's M.S. enrollment report. In addition, there is the usual ambivalency in reporting enrollments for students in the pharmaceutical sciences undertaking graduate study in academic departments outside of the college of pharmacy. These qualifiers apply to all the comparative statistics in this report.

Table I contains the enrollments of masters degree students by discipline and sex in 55 colleges. A total of 1223 students are enrolled in these programs and this represents an increase of 17 percent. Most

remarkable increases were net gains of 134 students at Northeastern and 76 students at St. John's. It appears that clinical chemistry students at the former institution and hospital pharmacy students at the latter, were not fully reported in the 1973 report. The largest M.S. enrollments were as follows: Northeastern - 162, St. John's - 128, Brooklyn - 112, Wisconsin - 49, Purdue - 44, and Illinois - 43.

Masters enrollments increased in pharmacy, pharmaceutical chemistry, and hospital pharmacy. Enrollment declines were observed in pharmacy administration, pharmacognosy and pharmacology. However, the pharmacology decrease may be attributable to omissions in the reporting of students enrolled outside of the college of pharmacy. As in the previous report, hospital pharmacy accounts for the highest proportion of M.S. students with 329 or 26.9 percent of the total. Following hospital pharmacy in proportions of the total enrollments are pharmaceutical chemistry - 21.6 percent, pharmacy - 20 percent, pharmacology - 14.3 percent, pharmacy administration - 13.4 percent and pharmacognosy 3.8 percent. As with undergraduate enrollment data, a changing sex mix in Masters enrollments can also be determined. In the 1972-1973 report, 22.3 percent of the group was female. This proportion has now risen to 25.8 percent. Much more dramatic evidence is found when the female statistics are removed from the universe and examined independently. The increase from 232 to 315 female M.S. students represents a growth of 35.9 percent.

Findings on American minority Masters degree enrollments are found in Table IA. The 79 minority students represent just 6.5 percent of the population. The expected dominance of Asian Americans is observed and these account for 45.6 percent of total minorities. Black Americans represent 24.5 percent, and Spanish-surnamed Americans, 19 percent of the minority group.

Doctoral enrollments at 46 colleges are found in Table II. The number of individuals pursuing studies for the Ph.D. are reported at 1,064 and this is a seven percent increase over last year. Purdue's 101 students is the largest doctoral enrollment. Other leading doctoral enrollments are as follows: SUNY-Buffalo - 78, Ohio State - 59, California - 53, Michigan - 49, Wayne State - 49, Iowa - 49, Pittsburgh - 39, Mississippi - 39, Connecticut - 38, Medical College of Virginia - 37.

Increases in doctoral enrollment were noted in pharmacy, pharmaceutical chemistry and pharmacy administration, while declines took place in pharmacognosy, pharmacology and hospital pharmacy. The proportions of total enrollment are: Pharmaceutical chemistry - 42.6 percent, pharmacy - 26.4 percent, pharmacology - 21.1 percent, pharmacognosy - 6.6 percent, pharmacy administration - 3.6 percent and hospital pharmacy - 0.3 percent. In comparison with last year's figures, the largest absolute gain was in pharmacy with 33 additional students and the largest relative gain in pharmacy administration with a 65.2 percent increment. The largest doctoral enrollments by discipline are: pharmacy, SUNY-Buffalo - 24; pharmaceutical chemistry, California - 53; pharmacognosy, Mississippi - 11; pharmacology, Medical College of Virginia - 25; pharmacy administration, Pittsburgh - 10; and hospital pharmacy, Purdue - 4.

Unlike masters programs, female doctoral enrollments suffered a relative decline from 15.2 percent to 14.7 percent. However, if only enrollments in colleges of pharmacy are examined, a slight increase is noted. Pittsburgh enrolls the largest number of women with 13 female doctoral students. Purdue, SUNY-Buffalo, Ohio State and Temple, have 11 females. Pharmaceutical chemistry has the highest female enrollment by discipline with 60 students.

Doctoral American racial minority enrollments are presented in Table IIA. The 72 students in this group represent 6.8 percent of the total doctoral enrollment. Asian Americans account for 61.1 percent and Spanish Surnamed and Black Americans each represent 13.9 percent of the minority doctoral student population. The latter groups each compose less than one percent of the total doctoral enrollment. There is one American Indian enrolled in a doctoral program.

Graduate programs to be offered in 1974-1975 are enumerated in Table III. The colleges anticipate 56 operative programs in the next academic year with 43 offering doctoral level programs in the college of pharmacy. Masters programs only are open at eight colleges and a number of schools offer doctoral study outside of the college of pharmacy.

The minimum grade point average required for admission varied from a high of 3.0, a B average on the 4.0 scale, to one college which set no minimum. A minimum grade point of 3.0 is demanded by 37 colleges and 17 schools report minimum grade point admission level between 2.25 and 2.9. The Graduate Record Examination is required for admission to the graduate program of 26 colleges of pharmacy and these are noted in Table III. The top GRE cutting score is 1,100 with two colleges at this level. Minimum scores of 1,000 or more are in effect at seven institutions and from these the cutting point drops down to as low as 500. Some colleges utilize percentile rankings and others combine GRE and grade points to develop weighted indices for admission. The TOFEL examination is now required for foreign graduates by ten colleges.

As in previous reports, the most widely available form of graduate student financial support anticipated to be available for students entering in 1974-1975 is the teaching assistantship, with 421 positions

available at 49 colleges. This represents a modest increase of 27 positions over the previous report. Most of these positions required 9 or 10 months of service with compensation ranging from $1,800 to $4,500. Approximately 14 percent of the teaching assistant appointments were at $4,000 or more, 22 percent ranged between $3,500 and $4,000, 34 percent fell under $3,500, but above $3,000 and 30 percent were below $3,000.

The demise of training grants is reflected in the dramatic decline in the availability of non-service stipends. These appointments have been cut in half as they have fallen from 163 to 82. Stipends range from $1,500 - $6,150, with an inservice traineeship budgeted at $10,500. Decline in the financial support for graduate education is also reflected in the report of 88 available research assistantships, a drop of 28 percent. However, an increase is indicated in post doctoral positions as they will rise to 100, a 41 percent increase. Post doctoral stipends range from $6,000 to $12,000. These data may reflect the trend away from the grant and toward the contract mechanism of research support.

The geographic origin of graduate students is presented in Table IV. Of the total graduate enrollment, 46.6 percent is from within the state of the reporting institution, 27.2 percent from other states and Canada and 26.2 percent from foreign countries. Northeastern University with 129 students from Massachusetts leads in enrollment of students from within state. Other leaders are: St. John's - 92, Brooklyn - 85, Purdue - 59, Temple - 41. Purdue enrolls the largest number of students from other states and Canada, with 64 students falling into this classification. Large out-of state student bodies were also reported by Ohio State - 41, Mississippi - 35, Iowa - 26, Michigan - 26, Connecticut - 25. St. John's

enrolls 42 foreign students, the largest foreign student group. Other colleges with large foreign enrollments are: SUNY-Buffalo - 37, Illinois - 29, Massachusetts College of Pharmacy - 37.

Tables V contains more detail on the geographic distribution of U. S. and Canadian graduate students. Similar information on foreign students is found in Table VI. As might be expected, the more populous states send the largest number of residents to graduate programs. Exceptions are Indiana and Wisconsin, where large instate graduate programs attract an exceptionally large number of resident students. Hawaii and the District of Columbia are the only large jurisdictions without residents enrolled in pharmacy graduate programs. Among the origins of the 596 foreign students, Taiwan and India predominate with 24.7 percent coming from the former and 22.8 percent from the latter. The other nations sending twenty or more students to the U. S. for advanced study are Korea, Hong Kong, Thailand, Pakistan and Egypt.

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The author is indebted to Ms. Carol Gill for conducting much of the computational and secretarial work associated with preparing the reports.

TABLE I

GRADUATE ENROLLMENT, MASTERS DEGREE, OCTOBER, 1973

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Auburn University	5	3	1				2	3			1		9	6
University of Arizona	15						2						17	0
University of Arkansas			3								2		5	0
University of the Pacific			8				7	2			2		17	2
University of Southern California	7	6											7	6
University of Colorado	1										1	1	2	1
University of Connecticut	1		1		2		1	2			4		9	2
University of Florida	7	2							1	1	3		11	3
University of Georgia	5		5		1		2	3					13	3
Idaho State University			2				3	2					5	2
University of Illinois	16	3	9	9	6								31	12

TABLE I (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Butler University	13	2	3		1	1	4						21	3
Purdue University	3	1	11	2	1	1	3	3	2		8	9	28	16
University of Iowa		1	1		1				2		11	1	15	2
University of Kansas				1							5		5	1
University of Kentucky				1									0	1
Northeast Louisiana State University	2		1	1			7	2			5		15	3
University of Maryland			1	1			1				9	1	11	2
Massachusetts College of Pharmacy	6	4	5	5	2		4	3	2				19	12
Northeastern University			55	36			13	7			47	4	115	47
University of Michigan		1									1		4	1
Wayne State University	2		5	1	1	1	4		1		17	3	30	5
University of Minnesota	1		1	1	2	3			2	2	8	2	14	8
University of Mississippi		2	1		2	1	3		8		1	1	15	4
University of Missouri at Kansas City	3	1	4				2						9	1

TABLE I (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
University of Montana	3												3	0
University of Nebraska	1		1	7			2						4	7
Rutgers University	6	2	4					2					10	4
Columbia University	7		2	2			4		8	2			21	4
Brooklyn College of Pharmacy									94	18			94	18
St. John's University	11	10	4	4			16	9	7	6	45	16	83	45
State University of New York at Buffalo		1	2	1									2	2
University of North Carolina											8	2	8	2
North Dakota State University	1		4		2	1	2	1			11	3	20	5
Ohio State University									1		13	2	14	2
University of Cincinnati	4								1				5	0
University of Toledo				1							8		8	1
University of Oklahoma	3	1	1				[illegible]	3			7	1	14	5
Oregon State University		1			1		3	1			6	1	10	3
Duquesne University	5		4	4			9						18	4

TABLE I (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Philadelphia College of Pharmacy and Science	3	3	3	2		1	4	1					10	7
Temple University	8	3	9	4			5				4	2	26	9
University of Pittsburgh	12	4			2				2				16	4
University of Rhode Island	4	1	2	1	4	1			3				13	3
Medical University of South Carolina								1*					0	1*
University of South Carolina	3		2	3			3	2					8	5
University of Tennessee	4					1							4	1
University of Houston	1		4	1			1	3			3	4	15	8
University of Texas	2	2	2	1	1		2	2			1	4	8	9
University of Utah											4		4	0
Medical College of Virginia		2		1							3	2	3	5
University of Washington		1	3								7	10	10	11

TABLE I (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Washington State University							1						1	0
West Virginia University	1	2	2	1		1							3	4
University of Wisconsin	16	1	5	2	5		10		1		8	1	45	4
TOTAL MASTERS	185	60	171	93	34	12	123	51	135	29	259	70	907	315
TOTAL MASTERS *								1						1
GRAND TOTALS	185	60	171	93	34	12	123	52	135	29	259	70	907	316

Pharmacy totals include: Pharmaceutics, Industrial Pharmacy
Pharmaceutical Chemistry totals include: Radiological Health, Clinical Chemistry, Medicinal Chemistry
Pharmacognosy totals include: Molecular and Quantum Biology, Microbiology
Pharmacology totals include: Biochemical Pharmacology, Toxicology

* Graduate programs available in the pharmaceutical sciences, but offered by departments of the parent university other than its college of pharmacy.

TABLE IA

MINORITY GRADUATE ENROLLMENT, MASTERS DEGREE, OCTOBER, 1973.

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
University of Southern California	1B	1A											1	1
University of Florida										1C			0	1
University of Illinois	2E	1B	1B	1C	1A								4	2
Butler University					1A								1	0
Purdue University			1C 1A										2	0
University of Maryland							1B						1	0
Massachusetts College of Pharmacy					1B								1	0
University of Minnesota											1B		1	0
University of Mississippi							1B						1	0
Rutgers University		1B											0	1
Columbia University										1A			0	1
Brocklyn College of Pharmacy									3B,2C, 14A,4E	1B,5C, 3A			23	9
St. John's University	2A	2B 1C		1A			1A				2B		5	4

TABLE IA (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Hi..Adm. M	Hi..Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
University of Oklahoma							1A						1	0
Temple University	1E	1E											1	1
University of Pittsburgh		1B			2C								2	1
University of Rhode Island				1A	1A	1A							1	2
Medical University of South Carolina								1A					0	1
University of South Carolina							1B						1	0
University of Houston												1B 1C	0	2
University of Texas			1C				1E					1A	2	1
Medical College of Virginia		2A		1A									0	3
University of Washington	—	—	1A	—	—	—	—	—	—	—	—	—	1	0
TOTALS													49	30
A = Asian American	2A	3A	2A	3A	3A	1A	2A	1A	14A	4A	-	1A	23A	13A
B = Black American	1B	5B	1B	-	1B	-	3B	-	3B	1B	3B	1B	12B	7B
C = Span.Sur.American	-	1C	2C	1C	2C	-	-	-	2C	6C	-	1C	6C	9C
E = Other American	3E	1E	-	-	-	-	1E	-	4E	-	-	-	8E	1E
	6	10	5	4	6	1	6	1	23	11	3	3	49	30

TABLE II

GRADUATE ENROLLMENT, DOCTORS DEGREE, October, 1973

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
University of Arizona	4	1	3				7						14	1
University of California			44	9									44	9
University of the Pacific			2				7	1					9	1
University of Southern California			13	3									13	3
University of Colorado			1				2	2	3				6	2
University of Connecticut	13	1	7	1	8		5	3					33	5
University of Florida	7	2	5				1*						1*,12	2
University of Georgia	5	1	5		1		1	1	1	1			13	3
University of Illinois	6	2	9	3	8								23	5
Purdue University	20	3	46	6			21	1			3	1	90	11
University of Iowa	11		11		2				2				26	0
University of Kansas	15	4	23	1			6						44	5
University of Kentucky	14		8										22	0

TABLE II (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Northeast Louisiana University			1										1	0
University of Maryland	8	1	4				7	1					19	2
Massachusetts College of Pharmacy	1		4	1		2							5	3
Northeastern University			4	2									4	2
University of Michigan	19	2	22	2	1	3							42	7
Wayne State University	3		1				3						7	0
University of Minnesota	8		10	6	2				5	1			25	7
University of Mississippi	1		10		8	3	7	2	8				34	5
University of Missouri at Kansas City	3		4				4	2					11	2
University of Nebraska	2		3				2						7	0
Rutgers University	8		6		1								15	0
Columbia University	2		3	1									5	1

TABLE II (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
St. John's University	10	1	7	1			6	2					23	4
State University of New York at Buffalo	23	1	31	5			13	5					67	11
University of North Carolina	5	1	9	7									14	8
North Dakota University			1	1			1						2	1
The Ohio State University	7	4	18	2	6	3	11	2	6				48	11
University of Cincinnati	2												2	0
Oregon State University		2			1								1	2
Duquesne University			2				1						3	0
Philadelphia College of Pharmacy and Science	7		2	2	1		4	1					14	3
Temple University	8	10	4				4	1					16	11
University of Pittsburgh	2	1	6	1	3	2	11	3	4	6			26	13
University of Rhode Island	3		8	1	3		10						24	1

TABLE II (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Medical University of South Carolina							2*						2*	0
University of Tennessee	2		5	1	4		8	2					19	3
University of Houston			1*		2*		4*						7*	0
University of Texas	1	1	3				1						5	1
University of Utah	8		14	1			5	1					27	2
Medical College of Virginia	1		9	2			22	3					32	5
University of Washington	4		11		2		3*	1*					3*,17	1*
Washington State University	3		1		1		5	1					10	1
University of Wisconsin	6	1	6	1	3		5		1				21	2
TOTAL DOCTORS	242	39	386	60	55	13	179	34	30	8	3	1	895	155
TOTAL DOCTORS *			1		2		10	1					13	1
GRAND TOTALS	242	39	387	60	57	13	189	35	30	8	3	1	908	156

Pharmacy totals include: Pharmaceutics, Industrial Pharmacy
Pharmaceutical Chemistry totals include: Radiological Health, Clinical Chemistry, Medicinal Chemistry
Pharmacognosy totals include: Molecular and Quantum Biology, Microbiology
Pharmacology totals include: Biochemical Pharmacology, Toxicology

* Graduate programs available in the pharmaceutical sciences, but offered by departments of the parent university other than its college of pharmacy.

TABLE IIA

MINORITY GRADUATE ENROLLMENT, DOCTORS DEGREE, OCTOBER, 1973.

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
University of California			2C, 4A	1C, 5A									6	6
University of Southern California			3A										3	0
University of Colorado							1C						1	0
University of Florida		1B											0	1
University of Georgia								1A					0	1
University of Illinois			1B										1	0
Purdue University			2C				1B, 1A					1C	4	1
University of Kansas							1C						1	0
University of Maryland							1A						1	0
University of Missouri at Kansas City	1B, 1A												2	0
University of Nebraska	1B												1	0
Columbia University			1A	1A									1	1
St. John's University	1D						1A						2	0
State University of New York at Buffalo							4A	3A					4	3

TABLE IIA (Continued)

Member College	Phcy. M	Phcy. W	Ph.Ch. M	Ph.Ch. W	Phcog. M	Phcog. W	Phcol. M	Phcol. W	Ph.Adm. M	Ph.Adm. W	Hosp. Pharm. M	Hosp. Pharm. W	Total M	Total W
Oregon State University		1A											0	1
Temple University	1E		1E				1E						3	0
University of Pittsburgh		1A	1B, 1A		3A	1A	2B,1C 1A	1A		2E			9	5
University of Rhode Island			1B, 3A	1A	1A								5	1
University of Texas			1C										1	0
University of Utah			1A				1A						2	0
Medical College of of Virginia			1A				1A						2	0
University of Washington								1E					0	1
Washington State University							1E						1	0
University of Wisconsin		1B											0	1
													50	22
TOTALS														
A = Asian American	1A	2A	14A	7A	4A	1A	10A	5A	-	-	-	-	29A	15A
B = Black American	2B	2B	3B	-	-	-	3B	-	-	-	-	-	8B	2B
C = Span.Sur.American	-	-	5C	1C	-	-	3C	-	-	-	-	1C	8C	2C
D = American Indian	1D	-	-	-	-	-	-	-	-	-	-	-	1D	-
E = Other American	1E	-	1E	-	-	-	2E	1E	-	2E	-	-	4E	3E
	5	4	23	8	4	1	18	6	0	2	0	1	50	22

TABLE III

GRADUATE PROGRAMS TO BE OFFERED IN 1974 - 1975.

Member College	Phcy.	Ph.Ch.	Phcog.	Phcol.	Ph.Ad.	Hosp.Ph.	Other
Auburn University +	M	M		M	M	M	M (Toxicology)
University of Arizona +	M,D	M,D	M,D	M,D	M	M*	
University of Arkansas +	M	M	M	M	M	M	
University of California		D					
University of the Pacific +		M,D	M,D	M,D		M,D	
University of Southern California +		M,D		D*			
University of Colorado	M,D	M,D	M,D	M,D	M,D	M	
University of Connecticut +	M,D	M,D	M,D	M,D	M	M	
University of Florida +	M,D	M,D		M*,D*	M,D	M	
University of Georgia +	M,D	M,D	M,D	M,D	M,D,D*	M	
Idaho State University +	M	M	M	M			
University of Illinois +	M,D	M,D	M,D	M,D		M	
Butler University	M	M	M	M	M*	M	M (Bionucleonics)
Purdue University	M,D	M,D	M,D	M,D	M,D	M,D	
University of Iowa +	M,D	M,D	M,D		M,D	M,D*	
University of Kansas	M,D	M,D		M,D		M	

TABLE III (Continued)

Member College	Phcy.	Ph.Ch.	Phcog.	Phcol.	Ph.Ad.	Hosp.Ph.	Other
University of Kentucky	M,D	M,D		M*,D*			M*,D* (Toxicology)
Northeast Louisiana University +	M,D	M,D	M,D	M,D	M,D	M	
University of Maryland +	M,D	M,D	M,D	M,D		M	
Massachusetts College of Pharmacy	M,D	M,D	M,D	M,D	M	M	
Northeastern University		M,D		M		M	M* (Clinical Chem.)
University of Michigan	M,D	M,D	M,D	M*,D*	M*,D*	M	
Wayne State University	M,D	M,D	M,D	M,D	M,D	M	
University of Minnesota	M,D	M,D	M,D	M*,D*	M,D	M	M* (Public Health)
University of Mississippi +	M,D	M,D	M,D	M,D	M,D	M	M (Adm. Pharmacy)
University of Missouri at Kansas City	M,D	M,D		M,D			
University of Montana +	M	M		M	M*		
University of Nebraska	M,D	M,D	M,D	M,D		M	
Rutgers University	M,D	M,D	M,D	M,D			
Columbia University	M,D	M,D		M,D	M		
Brooklyn College of Pharmacy					M		
St. John's University	M,D	M,D	M	M,D	M	M	M (Med.Technology)

TABLE III (Continued)

Member College	Phcy.	Ph.Ch.	Phcog.	Phcol.	Ph.Ad.	Hosp.Ph.	Other
State University of New York at Buffalo	M,D	M,D		D			
University of North Carolina +	M,D	M,D		M*,D*		M	
North Dakota State University	M,D	M,D	M,D	M,D	M,D	M	
Ohio State University	M,D	M,D	M,D	M,D	M,D	M	
University of Cincinnati	M	M	M	D	M		D (Biopharmaceutics)
University of Toledo	M	M	M	M		M	
University of Oklahoma +	M	M	M	M	M	M	
Oregon State University	M,D	M,D	M,D	M,D	M	M	
Duquesne University	M	M,D		M			
Philadelphia College of Pharmacy & Science	M,D	M,D	M,D	M,D			
Temple University +	M,D	M,D		M,D		M	M (Air Poll. Toxic.) M (Radio. Health)
University of Pittsburgh	M,D	M,D	M,D	M,D	M,D		M*,D* (Clinical Pharmacy)
University of Rhode Island +	M,D	M,D	M,D	M,D	M	M	M (Environmental Health Science)
Medical University of South Carolina +				M*,D*			
University of South Carolina +	M	M		M		M	

TABLE III (Continued)

Member College	Phcy.	Ph.Ch.	Phcog.	Phcol.	Ph.Ad.	Hosp.Ph.	Other
University of Tennessee	M*,D*	M*,D*		M*,D*			M*,D*(Molecular & quant. biology)
University of Houston +	M	M,D*	M,D*	M,D*		M	
University of Texas +	M,D	M,D	M,D	M,D	M,D	M	
University of Utah +	M,D	M,D		M,D	M	M	
Medical College of Virginia +	M,D	M,D		D*		M	
University of Washington	M,D	M,D	M,D	M*,D*		M	
Washington State University	M,D	M,D	M,D	M,D			
West Virginia University +	M	M	M	M*,D*	M		
University of Wisconsin	M,D	M,D	M,D	M,D	M,D	M	M,D (Continuing Education)

+ Institutions requiring the Graduate Record Examination

TABLE IV 1973 - 1974

GEOGRAPHICAL DISTRIBUTION OF GRADUATE STUDENTS

School	From own State	From other states & Canada	From Foreign Countries	Totals
Auburn University	5	2	8	15
University of Arizona	10	20	2	32
University of Arkansas	2	3	0	5
University of California	20	17	16	53
University of the Pacific	19	5	6	30
Univ. of Southern California	10	9	10	29
University of Colorado	4	5	2	11
University of Connecticut	13	25	11	49
University of Florida	15	12	2	29
University of Georgia	2	7	14	23
Idaho State University	3	0	4	7
University of Illinois	34	8	29	71
Butler University	16	6	3	25
Purdue University	59	64	22	145
University of Iowa	15	21	7	43
University of Kansas	8	26	21	55
University of Kentucky	4	10	9	23
Northeast Louisiana University	9	3	7	19
University of Maryland	22	7	5	34
Massachusetts College of Pharmacy	14	0	25	39
Northeastern University	129	22	17	168
University of Michigan	8	26	20	54
Wayne State University	27	1	14	42

TABLE IV (Continued)

School	From own State	From other states & Canada	From Foreign Countries	Totals
University of Minnesota	14	17	23	54
University of Mississippi	4	35	19	58
University of Missouri at Kansas City	16	6	1	23
University of Montana	0	0	3	3
University of Nebraska	10	2	6	18
Rutgers University	17	1	10	28
Columbia University	4	4	23	31
Brooklyn College of Pharmacy	85	17	10	112
St. John's University	92	21	42	155
State University of New York at Buffalo	45*	0	37	82
University of North Carolina	15	10	7	32
North Dakota State University	17	6	5	28
Ohio State University	21	41	13	75
University of Cincinnati	11	16	0	27
University of Oklahoma	10	6	3	19
Oregon State University	9	5	2	16
Duquesne University	12	2	11	25
Philadelphia College of Pharmacy and Science	11	7	16	34
Temple University	41	9	12	62
University of Pittsburgh	28	11	20	59
University of Rhode Island	17	13	11	41
University of South Carolina	8	2	3	13
University of Tennessee	13	11	3	27
University of Houston	14	1	8	23

TABLE IV (Continued)

School	From own State	From other states & Canada	From Foreign Countries	Totals
University of Texas at Austin	17	2	4	23
University of Utah	10	14	9	33
Medical College of Virginia	18	21	5	44
University of Washington	14	15	9	38
Washington State University	8	4	0	12
West Virginia University	1	1	5	7
University of Wisconsin	31	19	22	72
TOTALS	1,061	618	596	2,275

* SUNY - no breakdown available as to how many of these 45 students were from other states and Canada.

TABLE V

GRADUATE STUDENT DISTRIBUTION IN UNITED STATES SCHOOLS 1973 - 1974

ALABAMA (16)[a]
AUBURN 5, Southern California 1, Florida 2, Kansas 1, Minnesota 1, Mississippi 6.

ALASKA (2)
Pacific 1, Colorado 1.

ARIZONA (13)
ARIZONA 10, Purdue 1, Nebraska 1, Utah 1.

ARKANSAS (6)
ARKANSAS 2, Mississippi 3, Washington 1.

CALIFORNIA (94)
CALIFORNIA 20, PACIFIC 19, SOUTHERN CALIFORNIA 10, Arizona 8, Connecticut 4, Florida 1, Purdue 3, Iowa 2, Maryland 2, Northeastern 1, Michigan 1, Columbia 1, Ohio State 2, Cincinnati 2, Oklahoma 1, Oregon State 2, Pittsburgh 1, Utah 7, Washington 4, Washington State 2, Wisconsin 1.

COLORADO (7)
COLORADO 4, Purdue 1, Minnesota 1, Temple 1.

CONNECTICUT (27)
CONNECTICUT 13, Arizona 1, California 1, Maryland 1, Northeastern 1, Michigan 2, Minnesota 1, St. John's 1, North Carolina 1, Ohio State 2, Rhode Island 1, Wisconsin 2.

DELAWARE (1)
Purdue 1.

FLORIDA (29)
FLORIDA 15, Connecticut 1, Kansas 2, Northeastern 1, Mississippi 4, North Carolina 3, South Carolina 1, Tennessee 1, Medical College of Virginia 1.

GEORGIA (16)
GEORGIA 2, Auburn 1, California 1, Southern California 1, Connecticut 1, Florida 1, Purdue 2, Kentucky 1, Northeastern 1, Mississippi 3, Cincinnati 1, Wisconsin 1.

IDAHO (9)
IDAHO 3, Pacific 1, Purdue 1, Minnesota 1, Rhode Island 1, Washington 2.

ILLINOIS (64)
ILLINOIS 34, Arizona 1, California 2, Georgia 1, Butler 2, Iowa 3, Northeast Louisiana 1, Michigan 5, Minnesota 2, Mississippi 2, North Carolina 2, Oklahoma 1, Oregon State 1, Duquesne 1, Philadelphia 1, Tennessee 2, Wisconsin 3.

INDIANA (92)
BUTLER 16, PURDUE 59, California 1, Georgia 1, Iowa 2, Kansas 1, Kentucky 1, Michigan 2, Minnesota 1, North Carolina 1, Ohio State 3, Cincinnati 1, Utah 1, Washington 2.

IOWA (28)
IOWA 15, Arizona 1, Kansas 3, Michigan 1, Minnesota 1, Mississippi 2, Missouri 1, Ohio State 1, Texas 1, Utah 1, Washington 1.

TABLE V (Continued) 1973 - 1974

KANSAS (19)
KANSAS 8, Iowa 2, Kentucky 1, Minnesota 1, Missouri 3, Ohio State 3, Utah 1.

KENTUCKY (11)
KENTUCKY 4, Florida 1, Georgia 1, Purdue 4, Tennessee 3.

LOUISIANA (11)
NORTHEAST LOUISIANA 9, California 1, Purdue 1, Houston 1, Medical College of Virginia 1.

MAINE (4)
Purdue 1, Northeastern 1, Wisconsin 2.

MARYLAND (27)
MARYLAND 22, Kentucky 1, Michigan 1, South Carolina 1, Medical College of Virginia 1, Wisconsin 1.

MASSACHUSETTS (168)
MASSACHUSETTS 14, NORTHEASTERN 129, Auburn 1, Pacific 1, Connecticut 5, Florida 1, Illinois 2, Purdue 2, Iowa 1, Wayne State 1, Minnesota 1, St. John's 1, Ohio State 5, Cincinnati 1, Pittsburgh 1, Rhode Island 1, Wisconsin 1.

MICHIGAN (47)
MICHIGAN 8, WAYNE STATE 27, Arizona 1, Butler 1, Purdue 4, Mississippi 1, Ohio State 3, Oregon State 1, Washington 1.

MINNESOTA (30)
MINNESOTA 14, California 1, Purdue 3, Iowa 2, Kansas 3, Rutgers 1, North Dakota State 4, Cincinnati 1, Wisconsin 1.

MISSISSIPPI (9)
MISSISSIPPI 4, Arizona 1, Arkansas 1, Purdue 1, Oklahoma 1, Pittsburgh 1.

MISSOURI (30)
MISSOURI 16, Illinois 1, Purdue 1, Iowa 2, Kansas 5, Northeastern 1, St. John's 1, Oklahoma 1, Temple 1, Utah 1.

MONTANA (3)
Purdue 1, North Dakota State 1, Washington 1.

NEBRASKA (22)
NEBRASKA 10, Colorado 2, Kansas 1, Minnesota 1, Missouri 1, Ohio State 1, Cincinnati 2, Medical College of Virginia 2, Washington State 1, Wisconsin 1.

NEVADA (1)
Ohio State 1.

NEW HAMPSHIRE (2)
Northeastern 2.

NEW JERSEY (77)
RUTGERS 17, Arizona 1, Pacific 1, Connecticut 1, Florida 2, Purdue 1, Kansas 1, Kentucky 1, Northeastern 2, Columbia 3, Brooklyn 17, St. John's 12, Ohio State 2, Cincinnati 1, Philadelphia 5, Temple 4, Rhode Island 3, Tennessee 1, West Virginia 1, Wisconsin 1.

NEW MEXICO (8)
Arizona 1, Arkansas 1, Southern California 2, Colorado 1, Purdue 1, Oklahoma 1, Temple 1.

NEW YORK (279)
COLUMBIA 4, BROOKLYN 85, ST. JOHN'S 92, SUNY 45[b], Arizona 2, California 2, Connecticut 5, Georgia 1, Illinois 3, Purdue 9, Iowa 2, Kansas 2, Maryland 1, Northeastern 4, Michigan 2, Minnesota 1, North Carolina 1, Ohio State 3, Cincinnati 1, Duquesne 1, Pittsburgh 1, Rhode Island 4, Tennessee 2, Medical College of Virginia 4, Washington State 1, Wisconsin 1.

NORTH CAROLINA (26)
NORTH CAROLINA 15, Florida 2, Purdue 2, Mississippi 2, Cincinnati 2, Medical College of Virginia 3.

NORTH DAKOTA (17)
NORTH DAKOTA 17.

OHIO (56)
OHIO STATE 21, CINCINNATI 11, Arizona 1, Connecticut 2, Florida 1, Butler 2, Purdue 2, Iowa 1, Kansas 1, Maryland 1, Michigan 4, Mississippi 1, St. John's 1, Pittsburgh 4, Medical College of Virginia 2, Wisconsin 1.

OKLAHOMA (18)
OKLAHOMA 10, Arkansas 1, Colorado 1, Purdue 2, Kentucky 1, Minnesota 1, Mississippi 1, Texas 1.

OREGON (16)
OREGON 9, Connecticut 1, Purdue 2, Kansas 1, Minnesota 1, Temple 1, Washington 1

PENNSYLVANIA (134)
DUQUESNE 12, PHILADELPHIA 11, PITTSBURGH 28, TEMPLE 41, Arizona 1, Pacific 1, Connecticut 2, Illinois 1, Purdue 6, Iowa 1, Kentucky 4, Maryland 2, Northeastern 2, Michigan 5, Mississippi 2, Missouri 1, St. John's 2, Ohio State 6, Rhode Island 1, Utah 1, Medical College of Virginia 3, Wisconsin 1.

PUERTO RICO (5)
Purdue 2, Mississippi 2, St. John's 1.

RHODE ISLAND (30)
RHODE ISLAND 17, Georgia 2, Illinois 1, Iowa 1, Northeastern 5, Minnesota 1, St. John's 1, Oklahoma 1, Tennessee 1.

SOUTH CAROLINA (17)
SOUTH CAROLINA 8, Arizona 1, Florida 1, Georgia 1, Purdue 2, North Carolina 1, Pittsburgh 1, Tennessee 1, Medical College of Virginia 1.

SOUTH DAKOTA (5)
Connecticut 1, Purdue 1, Kansas 1, Mississippi 2.

TENNESSEE (17)
TENNESSEE 13, Iowa 1, Mississippi 2, Cincinnati 1.

TEXAS (41)
HOUSTON 14, TEXAS 17, Purdue 1, Kansas 2, Northeast Louisiana 2, Mississippi 1, Ohio State 1, Cincinnati 1, Philadelphia 1, Medical College of Virginia 1.

UTAH (10)
UTAH 10.

VERMONT (1)
Purdue 1.

VIRGINIA (21)
MEDICAL COLLEGE OF VIRGINIA 18, Southern California 1, North Carolina 1, Ohio State 1.

VIRGIN ISLANDS (2)
Northeastern 1, Ohio State 1.

WASHINGTON (33)
WASHINGTON 14, WASHINGTON STATE 8, California 3, Purdue 1, Kansas 1, Mississippi 1, Ohio State 3, Cincinnati 1, Rhode Island 1.

WEST VIRGINIA (7)
WEST VIRGINIA 1, Ohio State 2, Cincinnati 1, Pittsburgh 2, Medical College of Virginia 1.

WISCONSIN (51)
WISCONSIN 31, California 1, Southern California 2, Connecticut 2, Purdue 4, Iowa 1, Kansas 1, Michigan 3, Minnesota 2, Nebraska 1, North Dakota State 1, Oregon State 1, Medical College of Virginia 1.

WYOMING (3)
Southern California 1, Butler 1, Washington 1.

CANADIAN STUDENTS IN UNITED STATES SCHOOLS

ALBERTA (2)
California 1, Wisconsin 1.

BRITISH COLUMBIA (1)
Rhode Island 1.

MANITOBA (3)
California 2, Washington 1.

ONTARIO (2)
Ohio State 1, Temple 1.

QUEBEC (2)
California 1, Wisconsin 1.

SASKATCHEWAN (1)
Utah 1.

TORONTO (1)
St. John's 1.

[a] Total number of students.
[b] SUNY - there is no breakdown reported as to how many of these 45 students are not New York residents.

TABLE VI

1973 - 1974

FOREIGN GRADUATE STUDENT DISTRIBUTION

Country	Number of Students	Country	Number of Students
Australia	4	Jordon	3
Bangladesh	1	Korea	39
Belgium	1	Kuwait	1
Brazil	2	Lebanon	1
Burma	1	Libya	1
Chile	1	Malawi	1
Columbia	1	Malaysia	1
Costa Rica	5	Mexico	6
Cuba	3	Nigeria	11
Czechoslovakia	1	Norway	2
East Africa	3	Pakistan	30
Ecuador	1	Panama	2
Egypt	20	Philippines	9
Ethiopia	2	Poland	3
Gaza	1	Russia	1
Germany	6	Saudi-Arabia	8
Ghana	4	Scotland	1
Great Britain	4	Singapore	1
Greece	7	South America	1
Guatemala	1	Spain	1
Hong Kong	36	Syria	4
Hungary	3	Taiwan (Formosa)	147
India	136	Thailand	35
Indonesia	3	Trinidad	1
Iran	13	Turkey	4
Iraq	3	Venezuela	5
Israel	6	Viet Nam	2
Italy	2	Yugoslavia	2
Japan	2		
		TOTAL	596